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TOP INNOVATION TRENDS IN THE WORLD OF LOGISTICS

Recent years have seen massive advancement for the logistics industry in areas of increasing technology innovations like artificial and augmented intelligence, advanced analytics, and automation. For its heavy use of manual processes and large amounts of data stored in different ways and in different places, the logistics industry has the most to gain from implementing new technologies and following the most innovative Supply Chain and Logistics technology trends.

Top 10 important logistics technology trends that the companies should be keeping an eye namely include: 1) Artificial and Augmented Intelligence; 2) Digital Twins; 3) Real-Time Supply Chain Visibility; 4) Blockchain; 5) Data Standardization and Advanced Analytics; 6) The Growing Importance of Industry Newcomers; 7) Increasing Investment into Logistics Startups from VCs and Enterprises; 8) Sustainability Powered by Technology; 9) Autonomous Vehicles; 10) Warehouse Robotics.

Augmented intelligence is expected to increase hours of worker productivity globally because it combines human intelligence with AI automated processes. That kind of combination may even be superior to using AI alone, especially in logistics planning.

Digital twins are possibly one of the most exciting logistics technology trends. Now, physical and digital worlds can be melded into one, allowing to engage with the digital model of a physical object or part just like we would with their physical counterparts. The potential use cases for digital twins in logistics are vast: shipment sector, warehousing and facilities, logistics hubs, delivery networks.

New supply chain visibility startups are providing technology that promotes quick response to change by allowing companies to use real-time data. Such data includes traffic patterns, weather, or road and port conditions which are used to take action and reshape demand or redirect supply and optimize routes.

Blockchain has become one of the most overhyped logistics technology trends. But the steps required for logistics companies to adopt the blockchain include: 1) logistics companies need to digitize, standardize, and cleanse their data; 2) companies must form a blockchain environment ecosystem of supply chain partners.

New data standards are finally being created in container shipping. It has been done in order to create common information technology standards for digitalization and interoperability in an effort to make the shipping sector more efficient for both customers and shipping lines.

Emerging business models and new industry players are shaping the future of logistics. Often driven by startups, new systems incorporating elements of the sharing economy are gaining prominence fast. With more flexible operations, they can offer more agile pricing and provide quotes faster, while championing transparency.

Investing into promising logistics startups has become one of the most important logistics technology trends, because logistics companies can get the best of both worlds – leverage their capacities while driving R&D through their new partners.

Sustainability is a trend in nowadays logistics. Last-mile delivery presents many opportunities for fresh and smart approaches from actual electric vehicles to AI-based software that calculates the route with the lowest generated emissions.

Autonomous vehicles are associated with the close future of logistics having a good potential in unexpected areas, such as fleet maintenance, as well as warehouse robotics. Robotization can significantly improve the efficiency and speed of warehouse processes due to machine-learning technologies and sensors ensuring extreme accuracy and easy traceability.